TR	ANS	MITTAL O	F INFORMATI Inder 37 CFR 1.	ON DISCL	OSURE	STATEME	NT	Docket No.
la D					73		Φ	15201
In K	е Ар	olication Of:	Heikki Heikkila, et	,	2 9 2002	VC26 3	MAY	CENTA
	10/0	rial No. 946,967	Filing D January 14		PAOEMARY	Examine UNASSIGN		Goup Art Unit 1731
Title	PI	REPARATION	OF CHEMICAL I	PULP AND X	YLOSE, U	TILIZING A	DIRECT A	CID HYDROLYSIS ON
THE	PULI	P						
					ddress to:			
				Assistant Com	missioner	for Patents		
				wasning	ton, D.C. 2	0231		
					FR 1.97(b			
1. 🔀	The	e Information [Disclosure Stateme	ent submitted	herewith	is being filed	within three	months of the filing
	CF	R 1.491 in an	international app	lication: or h				months of the filing ge as set forth in 37 Office Action on the
	me	rits, whichever	event occurs last.	, C. J		mailing date	or a first (on the
				37 CF	R 1.97(c	1		
2. 🔲	The	Information D)isclosure Statem€	ent suhmittad	horowith	io boine file i	ofton these	
	The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an occurred last but before the mailing date of either:							
	occi	urred last but b	pefore the mailing of	date of either:	ic or a r	iist Office Ac	tion on the	merits, whichever
		1. a	Final Action under	37 CFR 1.11	3, or			
		2. al	Notice of Allowanc	e under 37 C	FR 1.311			
		whichever	occurs first.					
	Also	submitted her	ewith is:					
		a certification	n as specified in 37	7 CFR 1.97(e) :			
			OR	, ,	,,			
		the fee set to under 37 CF	forth in 37 CFR 1 R 1.97(c).	.17(p) for su	bmission	of an Informa	ation Disclo	sure Statement
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In Re Application Of: Heikki Heikkila, et al. Serial No. Filing Date January 14, 2002 Filing Date January 14, 2002 UNASSIGNED Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below. A duplicate copy of this sheet is enclosed. Charge the amount of Credit any overpayment. Charge any additional fee required. Certificate of Transmission by Facsimile* Certificate of Transmission by Facsimile Transmited to the Onlited States Patent and Trademark Office (Fax. No. 10.00) Signature Signature of Person Mailing Correspondence Mishelle Mustafa	In Re Application Of: Heikki Heikkila, et al. Serial No. Filing Date January 14, 2002 Filing D	TRANSMITTAL OF INFORMATION DISCL (Under 37 CFR 1.97(b) or 1.9	OSURE STATEMENT	Docket No. 15201
Title: PREPARATION OF CHEMICAL PULP AND XYLOSE, UTILIZING A DIRECT ACID (D'PROLYSIS ON THE PULP) Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below. A duplicate copy of this sheet is enclosed. Charge the amount of Credit any overpayment. Charge any additional fee required. Certificate of Transmission by Facsimile* Certificate of Mailing by First Class Mail Certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. 100). (Date) Signature Signature Mishelle Mustafa	Title: PREPARATION OF CHEMICAL PULP AND XYLOSE, UTILIZING A DIRECT ACID EXPROLYSIS OF THE PULP Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMI as described below. A duplicate copy of this sheet is enclosed. Charge the amount of Credit any overpayment. Charge any additional fee required. Certificate of Transmission by Facsimile* Certificate of Mailing by First Class Mail Certificate of Mailing by First Class Mail Certificate of Mailing by First Class Mail Certificate of Transmission by Facsimile and authorization to charge deposit account is being facsimile transmitted to the onited States Patent and Trademark Office (Fax. No. 100, 100, 100, 100, 100, 100, 100, 100	In Re Application Of: Heikki Heikkila, et al.	5/10/10	13201
Title: PREPARATION OF CHEMICAL PULP AND XYLOSE, UTILIZING A DIRECT ACID (D'PROLYSIS ON THE PULP) Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below. A duplicate copy of this sheet is enclosed. Charge the amount of Credit any overpayment. Charge any additional fee required. Certificate of Transmission by Facsimile* Certificate of Transmission by Facsimile transmitted to the Onited States Patent and Trademark Office (Fax. No.) On (Date) Dignature Mishelle Mustafa	Title: PREPARATION OF CHEMICAL PULP AND XYLOSE, UTILIZING A DIRECT ACID EXPROLYSIS OF THE PULP Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMI as described below. A duplicate copy of this sheet is enclosed. Charge the amount of Credit any overpayment. Charge any additional fee required. Certificate of Transmission by Facsimile* Certificate of Mailing by First Class Mail Certificate of Transmission by Facsimile and Irademark Office (Fax. No. 10.10.10.10.10.10.10.10.10.10.10.10.10.1	Serial No. Filing Date 10/046,967 January 14, 2002	Examiner	Group Art Unit
(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below. A duplicate copy of this sheet is enclosed. Charge the amount of Credit any overpayment. Charge any additional fee required. Certificate of Transmission by Facsimile* Certificate of Mailing by First Class Mail Certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. 100 pt.) (Date) Signature Signature of Person Mailing Correspondence Mishelle Mustafa	(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMI as described below. A duplicate copy of this sheet is enclosed. □ Charge the amount of □ Credit any overpayment. □ Charge any additional fee required. Certificate of Transmission by Facsimile* □ Certificate of Transmission by Facsimile* □ Certificate of Transmission by Facsimile* □ Certificate of Mailing by First Class Mail □ Certify that this document and authorization to charge deposit abcount is being facsimile transmitted to the Onited States Patent and Trademark Office (Fax. No.) on (Date) ■ Signature Signature Signature Signature Typed or Printed Name of Person Signing Certificate *This certificate may only be used if paying by deposit account. Dated: April 22, 2002 ward W. Grolz gistration No.: 33,705	Title: PREPARATION OF CHEMICAL PULP AND X THE PULP	YLOSE, UTILIZING A DIRECT	ACID HYPROLYSIS ON
Typed or Printed Name CP	*This certificate may only be used if paying by deposit account. Dated: April 22, 2002 ward W. Grolz gistration No.: 33,705	A check in the amount of is atta The Assistant Commissioner is hereby authorized as described below. A duplicate copy of this sheet charge the amount of Credit any overpayment. Charge any additional fee required. Certificate of Transmission by Facsimile* I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No. On (Date)	certificate of Mailing Certificate of Mailing Certify that this document a compil 22, 2002 with first class mail under 37 C.F.R. Assistant Commissioner for F 20231. Signature of Person Mailing Mishelle M	by First Class Mail Ind fee is being deposited at the U.S. Postal Service as 1.8 and is addressed to the latents, Washington, D.C. In Correspondence ustafa

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PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Heikki Heikkila, et al.

Examiner:

UNASSIGNED

Serial No:

10/046,967

Art Unit:

1731

Filed:

January 14, 2002

Docket:

Dated:

15201

For:

PREPARATION OF CHEMICAL

PULP AND XYLOSE, UTILIZING

A DIRECT ACID HYDROLYSIS

ON THE PULP

Assistant Commissioner for Patents Washington, D.C. 20231

April 22, 2002

TO TOO TOO

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. §§1.56, 1.97 and 1.98

Sir:

Applicants, in order to meet their duty of disclosure, set forth at 37 C.F.R. §1.56, submit herewith those references which they deem relevant to the claims of the present application.

The relevant references are as follows:

1. Finnish Patent No. 55516 (to Kemi Oy)

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231. on April 22, 2002

Dated: April 22, 2002

Mishelle Mustafa

2. Paice, M.G. and Jurasek, L., "Removing Hemicellulose From Pulps by Specific Enzymic Hydrolysis", <u>J. Wood Chem. And Tech.</u>, 4(2), pp. 187-198 (1984)

- 3. WO 98/56958 (to Xyrofin Oy)
- 4. Guangyu, Yao et al., "Production of Pulp and Recovery of Xylose from Hardwood.

 II. The Optimal Process Conditions for Prehydrolysis of Eucalyptu Citriodora Chips with

 Dilute Sulphuric Acid and Sulfate Pulping", <u>Journal of Nanjing Technological College of</u>

 <u>Forest Products</u>, No. 4, p.32 (1988)
 - 5. U.S. Patent No. 4,734,162 (to Ampulski)
- 6. STN International, file CAPLUS, CAPLUS accession no. 1980:550586, Document no. 93:150586, Kramar, Alojz et al., "Pentoses from beech bark"; and Czech. CS 181485 19800115, 3 pp.
 - 7. U.S. Patent No. 3,954,497 (to Friese)
 - 8. U.S. Patent No. 4,008,285 (to Melaja et al.)
 - 9. U.S. Patent No. 4,070,232 (to Funk)

It is noted that in the case of Finnish Patent No. 55516, the significance of the reference is discussed in the subject specification. With respect to the second cited reference above, an English abstract follows the copy of the reference. The significance of this reference is also discussed in the subject specification. It is noted that the remaining patent publications and abstract are in English. Finally, a copy of the corresponding International Search Report is enclosed, citing references 3 and 5-9.

Applicants respectfully request that the above-mentioned references be made of record in the file of the present application. To that end, applicants submit herewith the aforementioned references and the completed Form PTO-1449, setting forth these references.

Applicants submit that the filing of this Information Disclosure Statement is prior to the issuance of an Office Action on the merits. Therefore, no Declaration or fee is required to effect the filing of this Information Disclosure Statement.

Consideration of this Information Disclosure Statement is respectfully requested, since the information provided herein may be material to the patentability of the subject application as defined in 37 C.F.R. §1.56.

Respectfully submitted,

Edward W. Grolz

Registration No.: 33,705

Scully, Scott, Murphy & Presser 400 Garden City Plaza Garden City, New York 11530 (516) 742-4343

EWG/nd

LIST O	F PRI	U.S. DEPARTMENT OF COMMERCE TRADEMARK OFFICE OR ART	PA	Atty. Docket No. 15201				40/040 0		
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		THE COSSIDER		Filing Date January 14, 2002		Group Unassign	7 - 70	1		
	TENT	DOCUMENTS	····				0			
EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	1	G DATE		
	AA	4,734,162	03/29/88	Ampulski			(if app	ropriate		
	AB	3,954,497	05/04/76	Friese		+				
	AC	4,008,285	02/15/77	Melaja, et al.						
	AD	4,070,232	01/24/78	Funk						
	AE									
	AF									
	AG									
		Foreign	T							
		Document Number	Date	Country	CLASS	SUBCLASS	TRANSL	ATION		
		55516	08/10/79	Finland			YES	NO		
		WO 98/56958	12/17/98	PCT				X		
	\Box						X			
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Paice, M.G. and Jurasek, L., "Removing Hemicellulose From Pulps by Specific Enzymic Hydro J. Wood Chem. And Tech., 4(2), pp. 187-198 (1984)										
	Guangyu, Yao et al., "Production of Pulp and Recovery of Xylose from Hardwood. II. The Optimal									
	Sulfate Pulping", <u>Journal of Nanjing Technological College of Forest Products</u> , No. 4, p. 32 (1988) STN International, file CAPLUS, CAPLUS accession no. 1980:550586, Document no. 93:150586, Kramar, Alojz et al., "Pentoses from beech bark"; and Czech. CS 181485 19800115, 3pp.						හ) 6,			
		XAMINER DATE CONSIDERED								

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 00/09

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C13K 13/00, D21H 11/04
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C13K, D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

	CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4734162 A (AMPULSKI, ROBERT R.), 29 March 1988 (29.03.88)	1-27
		1.
X	WO 9856958 A1 (XYROFIN OY), 17 December 1988 (17.12.88)	1-27
x	STN International, file CAPLUS, CAPLUS accession no. 1980:550586, Document no. 93:150586, Kramar, Alojz et al: "Pentoses from beech bark"; & Czech. CS 181485 19800115, 3 pp.	1
		
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X	Further documents are listed in the continuation of Bo	x C.	X See patent family annex.
A	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance		later document published after the international filing date or priorit-
"L"	earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified).	*X*	the principle or theory underlying the invention document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"O" "P"	"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the interpolation of St.		document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such
Date	the priority date claimed of the international search	″&″	document member of the same patent family
	nadobal scal cil	Date	f mailing of the international search report
10	November 2000		1 6 -11- ₂₀₀₀
Swe	Name and mailing address of the ISA/ Swedish Patent Office		zed officer
racs	BOX 5055, S-102 42 STOCKHOLM Facsimile No. + 46.8 666 02.86		Sjölund/GH

Telephone No. + 46 8 782 25 00

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 00/00645

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
x	US 3954497 A (FRIESE, HERMANN), 4 May 1976 (04.05.76)	23,25,26
A		1-27
	 :	
x	US 4008285 A (MELAJA, ASKO J. ET AL), 15 February 1977 (15.02.77)	23,25,26
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4	US 4070232 A (FUNK, HARALD F.), 24 February 1978 (24.02.78)	1-27
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